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**Burgess et al.**(10) **Pub. No.: US 2020/0391383 A1**(43) **Pub. Date: Dec. 17, 2020**(54) **MECHANICAL EYEBALL FOR  
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(57)

**ABSTRACT**

An animatronic device includes a mechanical eyeball configured to rotate about a first rotational axis and a second rotational axis that intersect at a fixed center point. A controller is configured to generate eye movement instructions that cause the animatronic device to rotate the mechanical eyeball about at least one of the first rotational axis and the second rotational axis. The eye movement instructions are generated based on an eye tracking system used to track movement of an eye of a user. The controller maps the tracked eye movement to movement of the mechanical eyeball and generates eye movement instructions based on the mapping.

Mechanical Eyeball  
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